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Cumulative Michigan COVID-19 Data

Michigan COVID-19 State Data

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9-19-2020

## 2020-09-19\_MichiganOverview\_COVIDstats

Michigan Department of Health & Human Services

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# Coronavirus

CORONAVIRUS / MICHIGAN DATA

## Michigan Data



**DATA ABOUT  
PLACES**

**LONG TERM CARE FACILITIES**

**CORONAVIRUS  
SYMPTOMS**

**CUMULATIVE  
RECOVERED**

**OUTBREAK  
REPORTING**



**SCHOOL-RELATED  
OUTBREAK REPORTING**



9/20/2020

Coronavirus - Michigan Data

**Note on deaths (09/19/20):** Regular reviews of death certificate data maintained in Vital Records reporting systems are conducted by MDHHS staff three times per week. As a part of this process, records that identify COVID-19 infection as a contributing factor to death are compared against all laboratory confirmed cases of COVID-19 in the Michigan Disease Surveillance System (MDSS). If a death certificate is matched to a confirmed COVID-19 case and that record in the MDSS does not indicate the individual died, the MDSS record is updated to indicate the death and the appropriate local health department is notified. These matched deaths are then included with mortality information posted to the Michigan Coronavirus website. As a result of the most recent assessment, today's data includes **12** additional deaths identified by this methodology.

The State of Michigan is working around the clock to test and treat COVID-19 patients. Below is the most recent data healthcare experts across the state have compiled. It is updated Monday - Saturday.

CURRENT STATUS

DAILY CASES

CUMULATIVE TRENDS

DEMOGRAPHICS

TOTAL TESTING

DIAGNOSTIC TESTING

LEARN MORE

View Cases

View Deaths

View Table

Select Preparedness Region:

All

Select County:

All

This report is provisional and subject to change. City of Detroit and Wayne County are reported separately. MDHHS began tracking probable cases April 5, 2020. FCI indicates federal correctional institute. MDOC indicates Michigan Department of Corrections. Diagnostic tests, including nucleic acid amplification/real-time polymerase chain reaction (NAAT/RT-PCR) and rapid virus antigen detection point of care (POC) tests, look for current infection. Serology (antibody) tests are used to look for the possibility of previous infection.

Source: Michigan Disease Surveillance System (MDSS) and Vital Records.

COVID-19 Cases by County

Confirmed cases include individuals with a positive diagnostic test for COVID-19. Probable cases include individuals with COVID-19 symptoms and an epidemiologic link to confirmed COVID-19, but no diagnostic test.

Cases by County

4-31

32-213

214-1783

1784-19883

19884+

Michigan

Saturday, September 19, 2020

Michigan (Statewide) Case Fatality Rate

5.7%

Current Totals

Case Status	Cases	Deaths
Confirmed	115,870	6,653
Probable	12,217	316
Total	128,087	6,969

Laboratory Testing

Test Type	Tests Performed
Diagnostic	3,353,686
Serology	283,882
Total	3,637,568

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https://www.michigan.gov/coronavirus/0,9753,7-406-98163\_98173---,00.html

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**Cases by Hispanic/Latino Ethnicity**

<b>Hispanic/Latino Ethnicity</b>	<b>Percentage of Overall Cases by Ethnicity</b>	<b>Percentage of Deceased Cases by Ethnicity</b>
Hispanic/Latino	8%	3%
Non-Hispanic Latino	68%	85%
Unknown	23%	12%

*Totals may not add to 100% due to rounding*

**Cases by Arab Ethnicity**

<b>Arab Ethnicity</b>	<b>Percentage of Overall Cases by Ethnicity</b>	<b>Percentage of Deceased Cases by Ethnicity</b>
Arab	5%	2%
Non-Arab	52%	47%
Unknown	43%	51%

*Totals may not add to 100% due to rounding*

PUBLIC USE DATASETS 9/19/2020

(Downloadable .xlsx files)

Cases and Deaths by County

Cases and Deaths by County by Date

Cases by Demographics Statewide

COVID-19 Tests by County

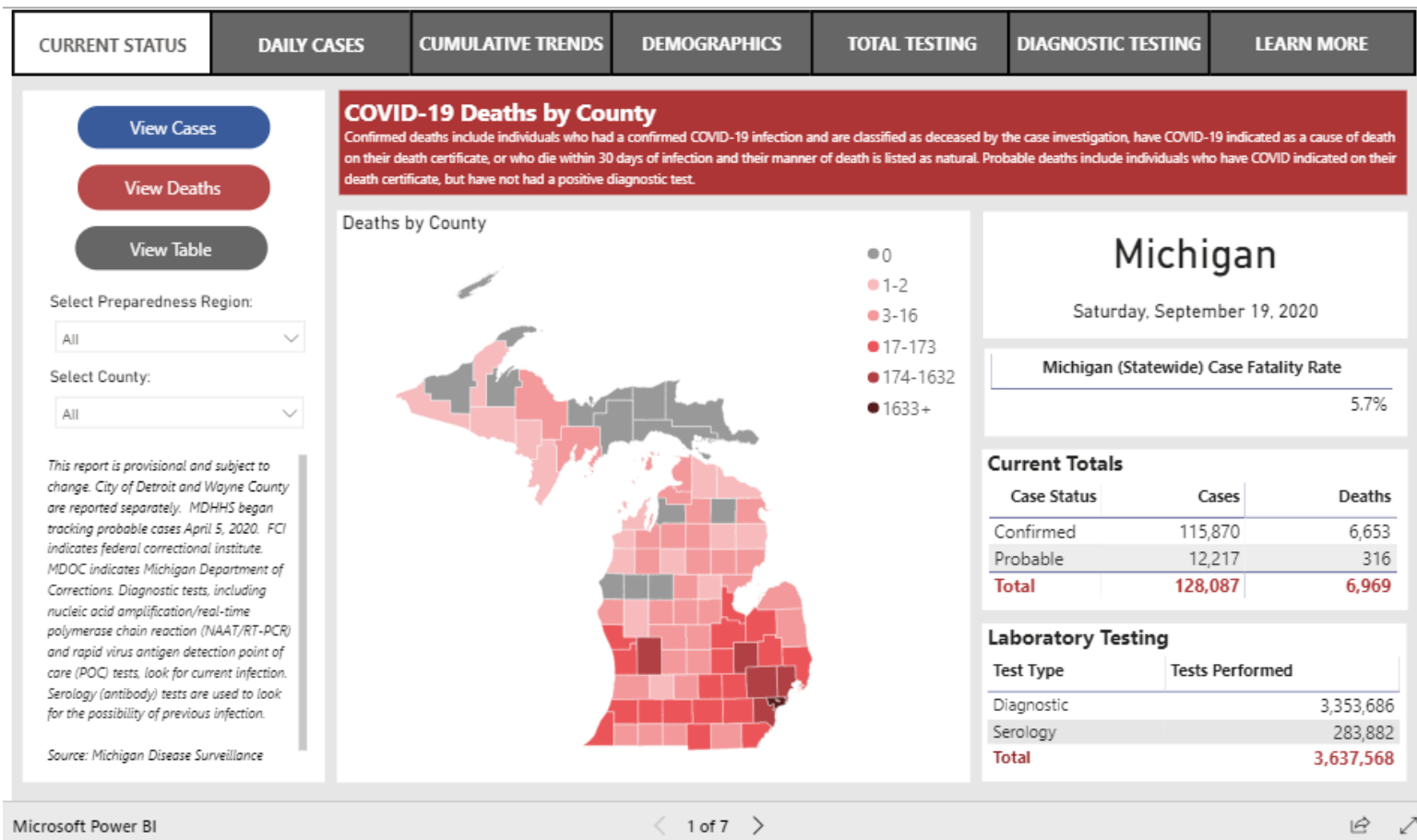
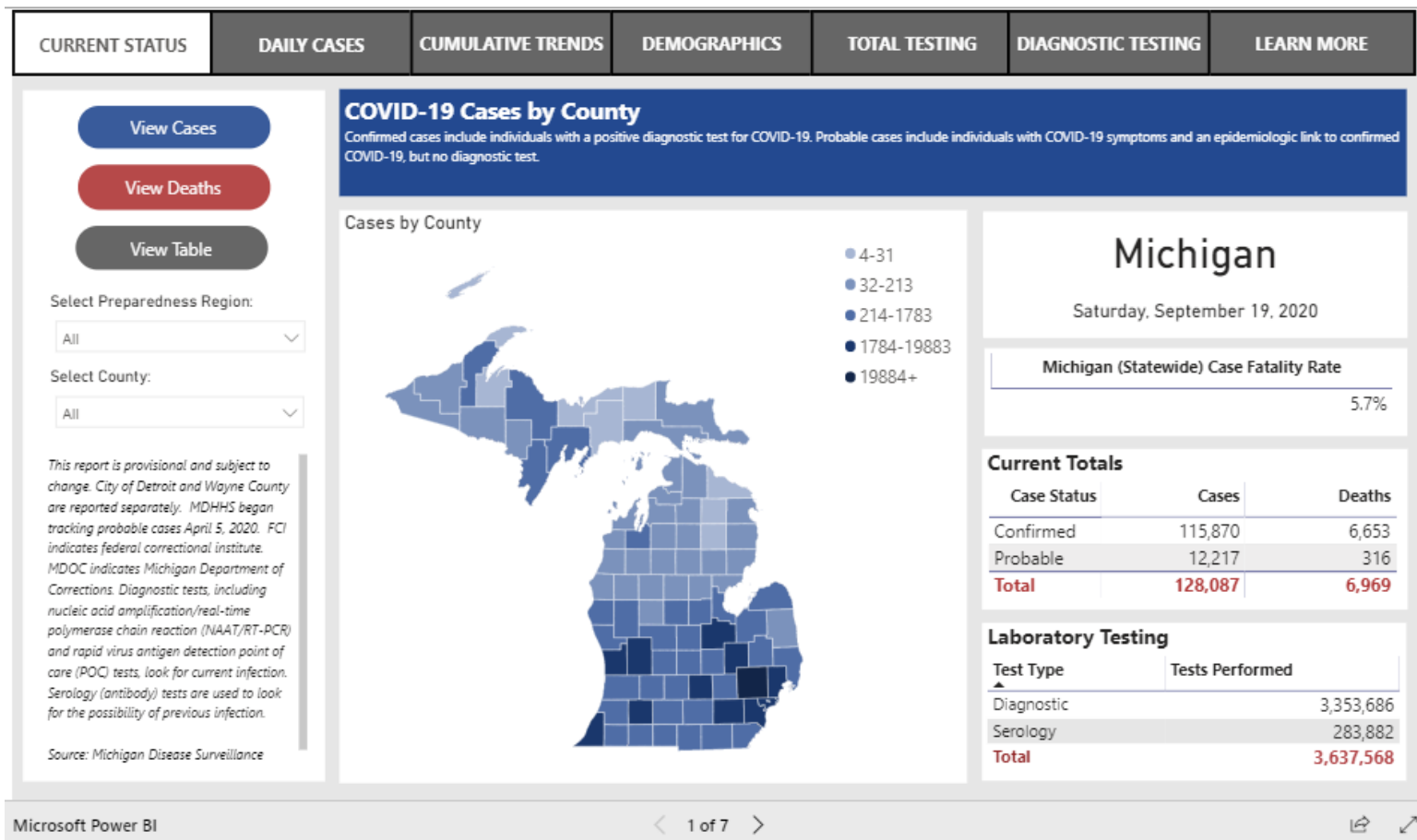
Diagnostic Tests by Result and County

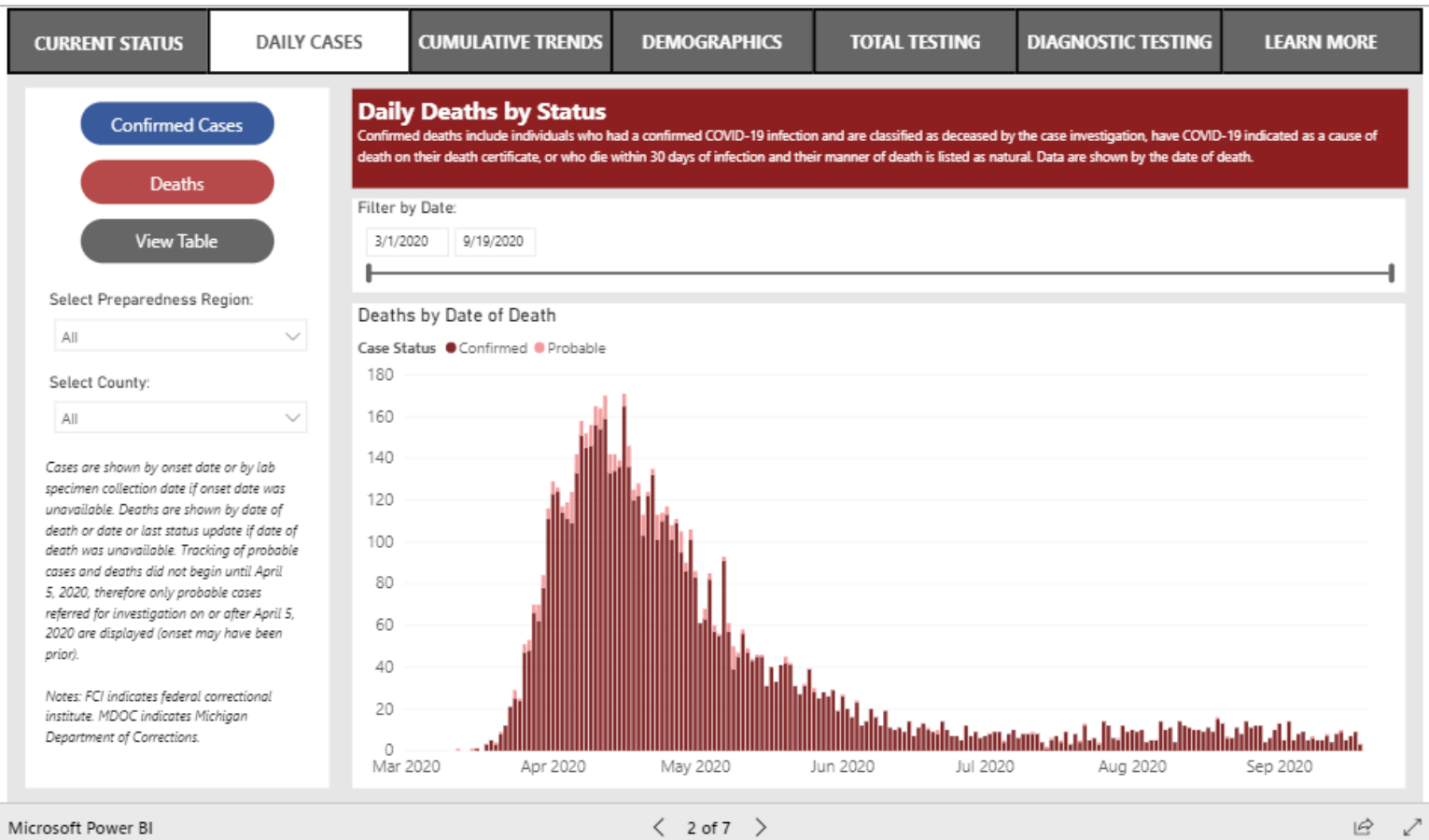
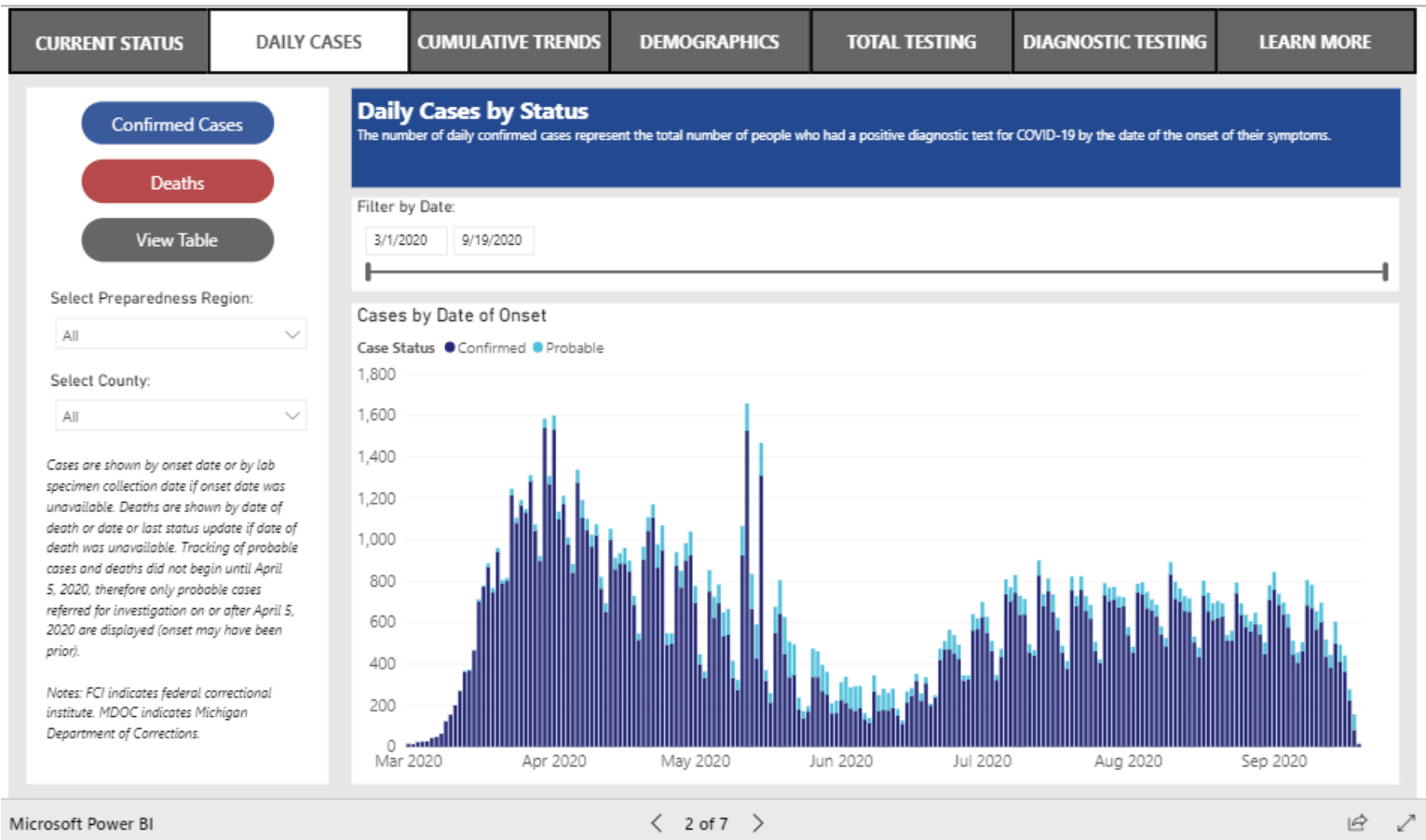
## Cumulative Total of Recovered COVID-19 Cases

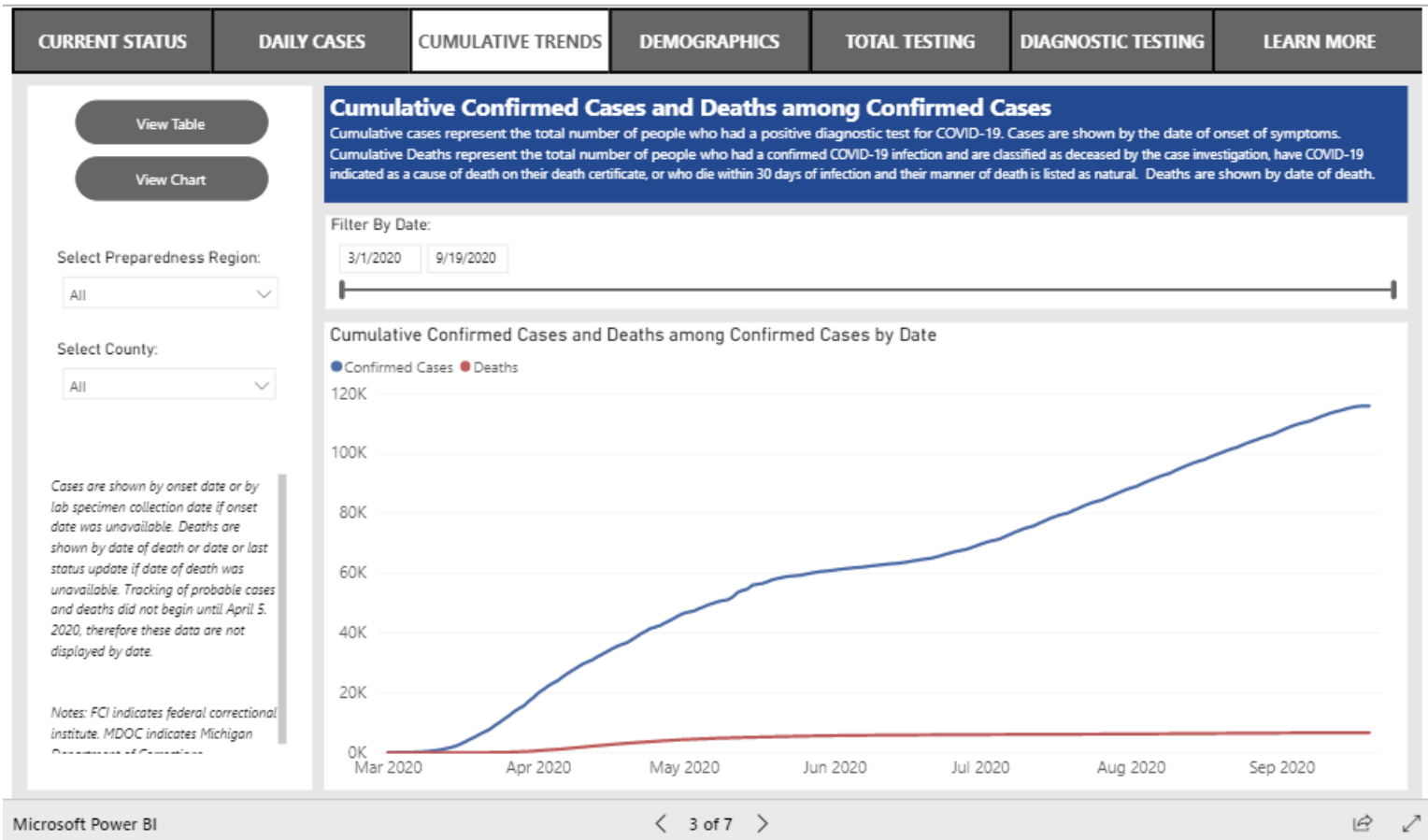
Cumulative Total of Recovered COVID-19 Cases (as of 09/18/2020): **90,216**

**Note on recovery:** During this response, MDHHS is reviewing vital records statistics to identify any laboratory confirmed COVID-19 cases who are 30 days out from their onset of illness to represent recovery status. As the pandemic continues to impact Michigan, this pool will expand to include more cases. Recovered is defined as the number of persons with a confirmed COVID-19 diagnosis who are alive 30 days post-onset (or referral date if onset is not available). The number of persons recovered on September 18, 2020 represents COVID-19 confirmed individuals with an onset date on or prior to August 19, 2020. If an individual dies from a COVID-related cause >30 days from onset/referral, they are removed from the number of persons recovered. These numbers will be updated every Saturday.

**Source:** Michigan Disease Surveillance System and Vital Records

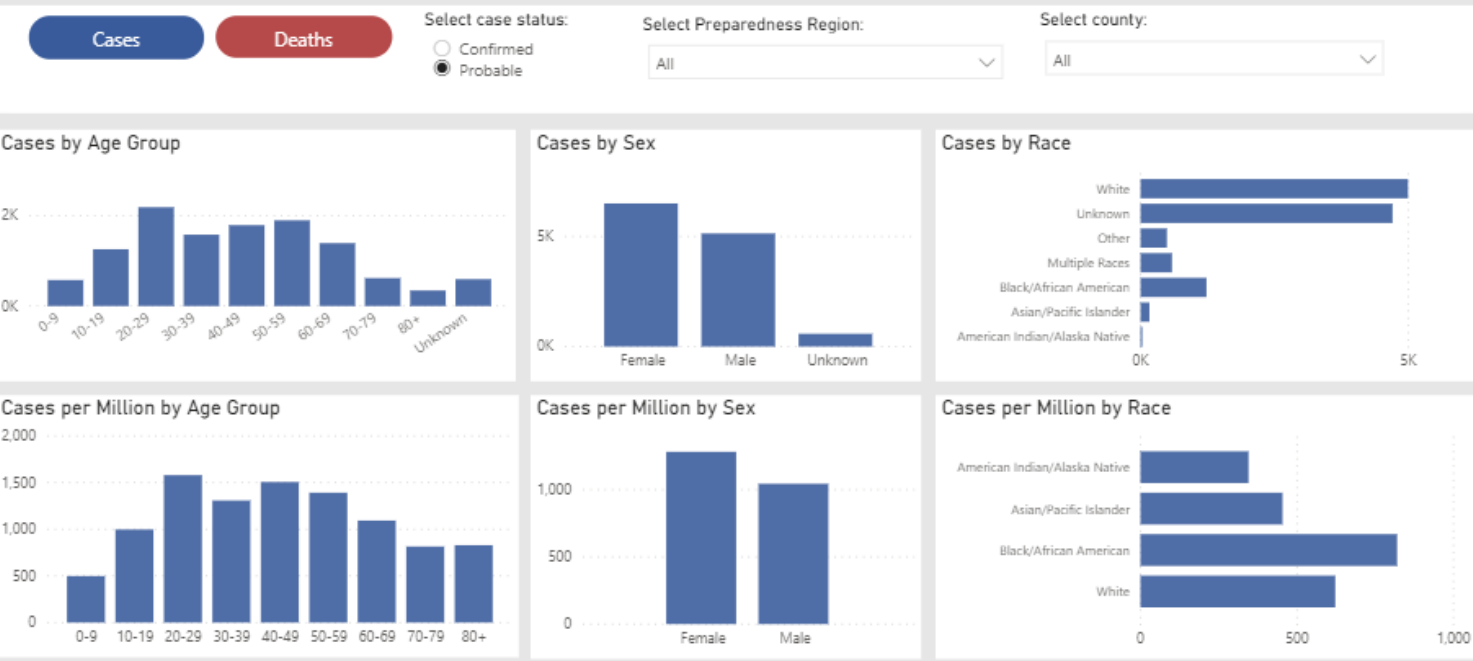






Cases by Demographic Characteristics

Data are suppressed when the number of cases is five or below to protect the confidentiality of individuals. The sum of the cases for individual categories may be fewer than the total number of cases due to data suppression. Rates are not calculated for multiple races, other, and unknown race categories due to the unavailability of an appropriate denominator.

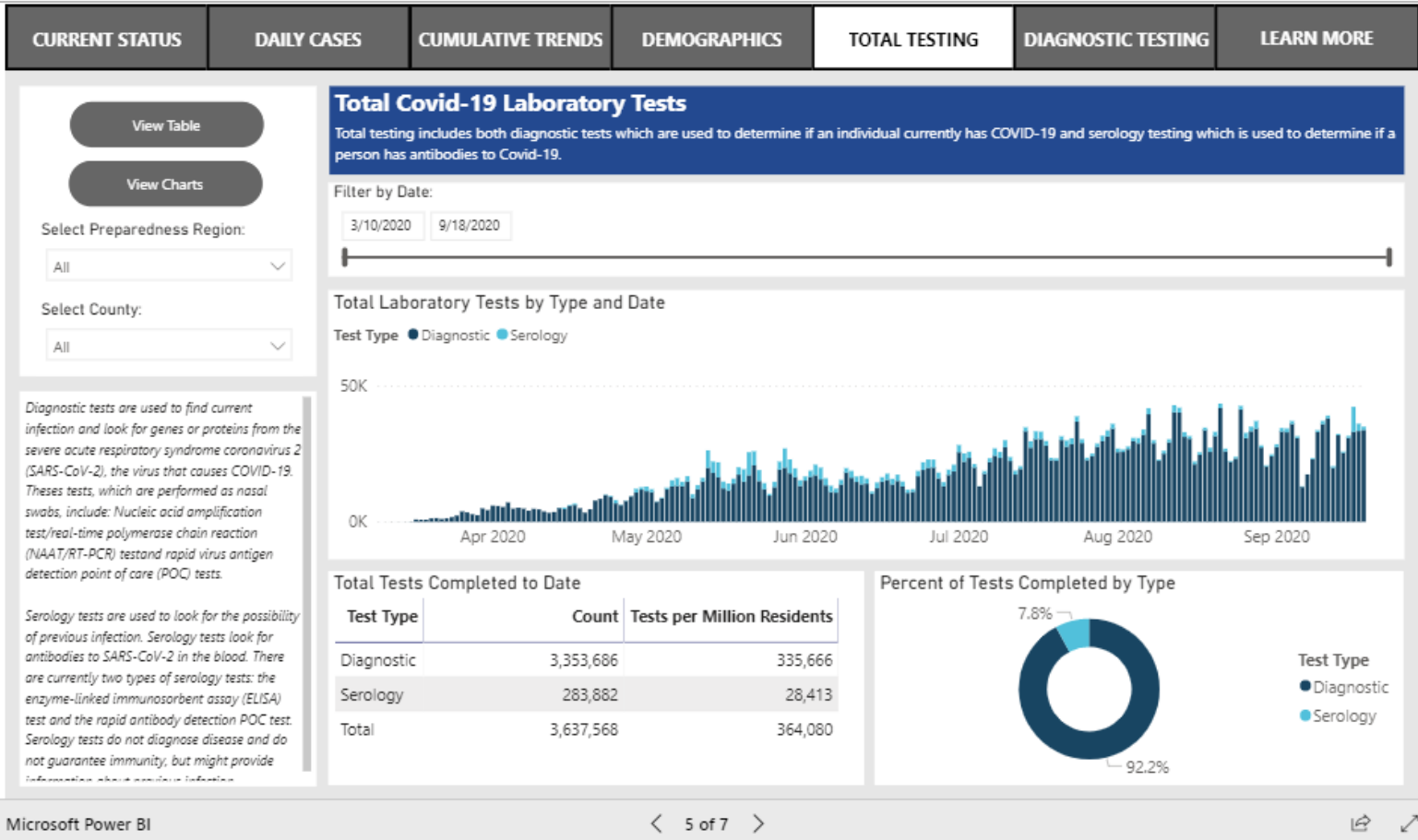
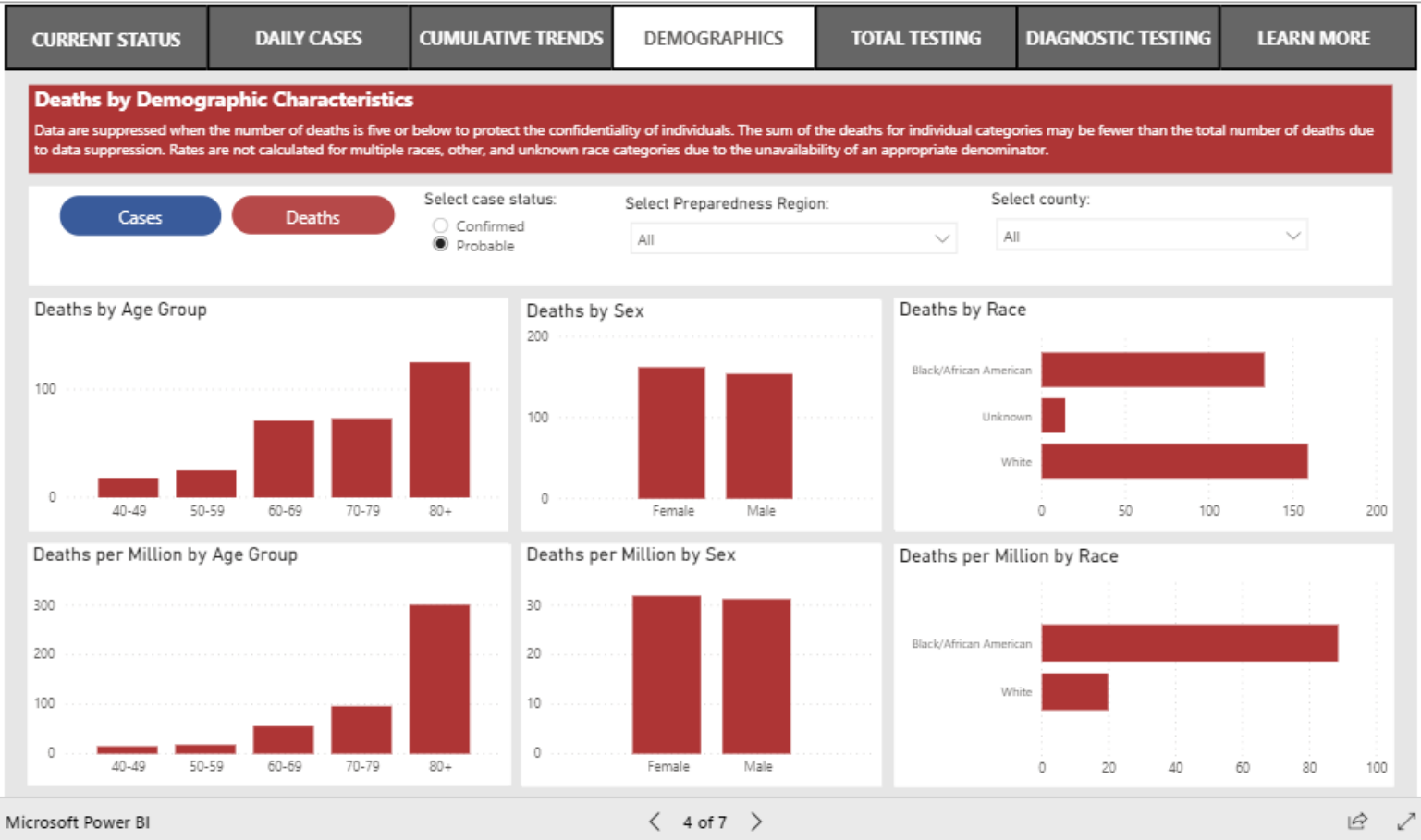


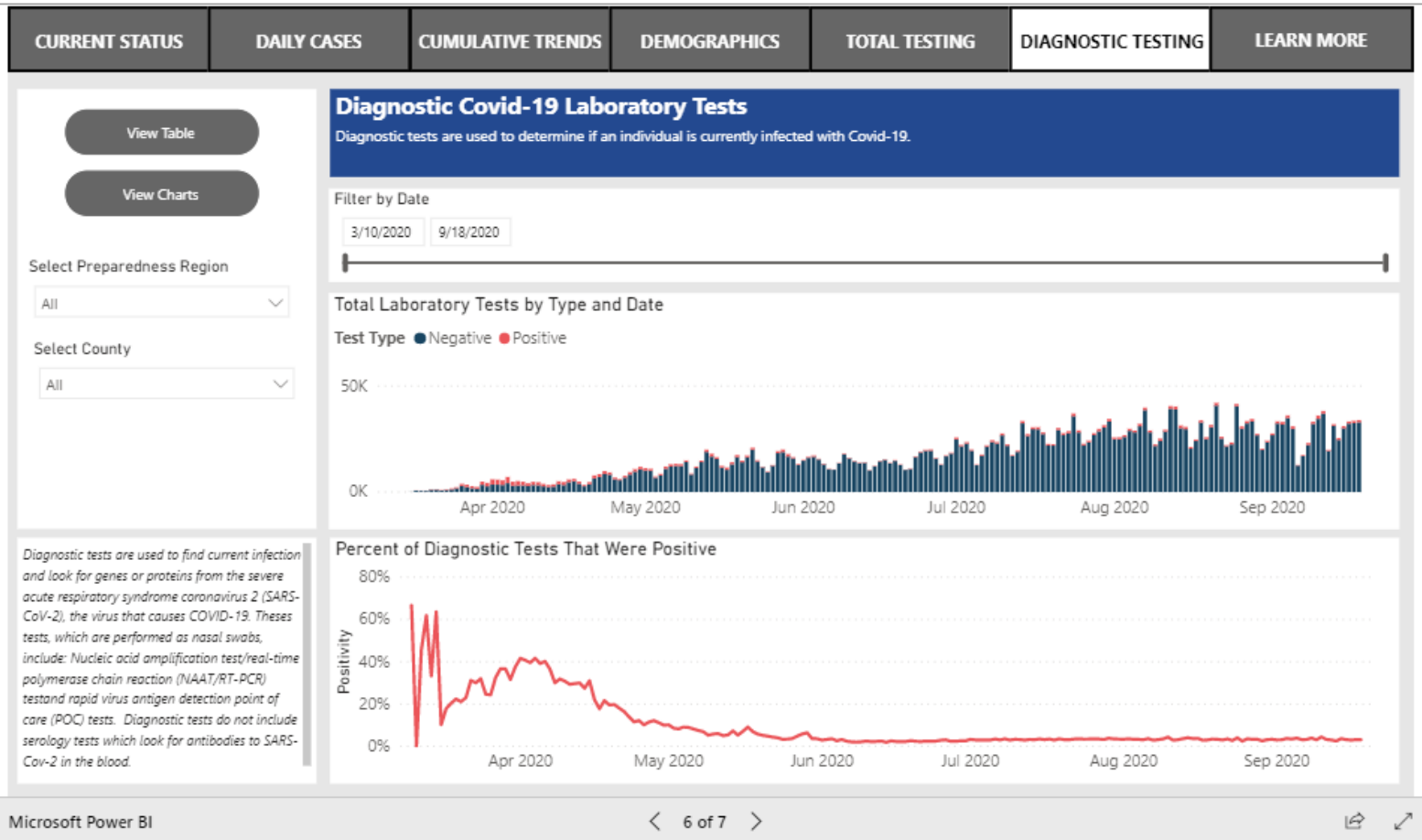
Deaths by Demographic Characteristics

Data are suppressed when the number of deaths is five or below to protect the confidentiality of individuals. The sum of the deaths for individual categories may be fewer than the total number of deaths due to data suppression. Rates are not calculated for multiple races, other, and unknown race categories due to the unavailability of an appropriate denominator.









CURRENT STATUS	DAILY CASES	CUMULATIVE TRENDS	DEMOGRAPHICS	TOTAL TESTING	DIAGNOSTIC TESTING	LEARN MORE
<p><b>Where does the data come from?</b></p> <p>The State of Michigan COVID-19 Dashboard displays the most recent provisional data reported to the Michigan Department of Health and Humans Services (MDHHS) about cases in Michigan by selected demographics and county of residence (City of Detroit and Wayne County are reported separately). Data are reported to MDHHS via the <a href="#">Michigan Disease Surveillance System (MDSS)</a>. Provisional Death data are provided by the MDHHS Division for <a href="#">Vital Records &amp; Health Statistics</a>.</p> <p><b>How does MDHHS classify confirmed and probable cases?</b></p> <p>Confirmed cases only include individuals who have had a positive diagnostic laboratory test for COVID-19. Probable cases include individuals who have symptoms consistent with COVID-19 and an epidemiologic link to a confirmed case or a positive serology (antibody) test, but do not have a positive diagnostic laboratory test for COVID-19 and individuals with a positive serology (antibody) test for COVID-19 and an epidemiologic link to a confirmed case.</p> <p><b>How does MDHHS classify confirmed and probable deaths?</b></p> <p>Confirmed deaths include individuals who meet one or more of the following conditions: 1) Have been identified as a confirmed case and classified as deceased as a result of a case investigation in the Michigan Disease Surveillance System (MDSS). MDSS is the database used by state and local health department to monitor reportable diseases like COVID-19; 2) have been identified as a confirmed case in MDSS had have a death certificate with COVID-19 listed as a cause of death; 3) have been identified as a confirmed case in MDSS and die within 30 days of onset of COVID-19 infection and have a death certificate which classifies their manner death as 'natural'. Probable deaths include individuals who have COVID indicated as a cause of death on their death certificate but have not had a positive diagnostic laboratory test.</p> <p><b>Why do the number of probable cases fluctuate?</b></p> <p>The number of probable cases can change daily based on the investigation efforts of the health department. When a probable case is first reported, local and/or state health department staff investigate to determine if the person meets the case definition of probable. As additional information is gathered, the case could be re-classified to confirmed, remain as probable, or be determined as not a case.</p> <p><b>Why do data in the demographics tab not sum to the total number of cases for a county or region?</b></p> <p>Data are not shown whenever the number of cases for a particular demographic category is fewer than six to protect the confidentiality of individuals. Rates are not calculated for other, multiple, and unknown race because an appropriate population denominator is not available for these categories at the county level.</p> <p><b>Where can I get more information about COVID-19?</b></p> <p>Visit <a href="https://www.michigan.gov/coronavirus">https://www.michigan.gov/coronavirus</a> to find information on resources and assistance, answers to frequently asked questions, and the latest updates on Michigan's response to COVID-19. For COVID-19 updates from CDC visit <a href="https://www.cdc.gov/coronavirus/2019-ncov">https://www.cdc.gov/coronavirus/2019-ncov</a>.</p>						

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# PUBLIC USE DATASETS

## Cases and Deaths by County

### README

Includes total cases and deaths to date by case status (confirmed or probable) and county.

County is based on the county of residence.

Confirmed cases only include individuals who have had a positive diagnostic laboratory test for COVID-19.

Probable cases include individuals who have symptoms consistent with COVID-19 and an epidemiologic link to a confirmed case or a positive serology (antibody) test, but do not have a positive diagnostic laboratory test for COVID-19 and individuals with a positive serology (antibody) test for COVID-19 and an epidemiologic link to a confirmed case.

Confirmed deaths include individuals who meet one or more of the following conditions: 1) Have been identified as a confirmed case and classified as deceased as a result of a case investigation in the Michigan Disease Surveillance System (MDSS). MDSS is the database used by state and local health department to monitor reportable diseases like COVID-19; 2) have been identified as a confirmed case in MDSS had have a death certificate with COVID-19 listed as a cause of death; 3) have been identified as a confirmed case in MDSS and die within 30 days of onset of COVID-19 infection and have a death certificate which classifies their manner death as 'natural'.

Probable deaths include individuals who have COVID indicated as a cause of death on their death certificate but have not had a positive diagnostic laboratory test.

The number of probable cases can change daily based on information obtained through the health department investigation. Probable cases can be re-classified as a confirmed case or determined to not be a case.

# **CASES AND DEATHS BY COUNTY 2020-09-29**

Updated	COUNTY	ConfirmedCases	ConfirmedDeaths	ProbableCases	ProbableDeaths
2020/09/19 13:38:32	Alcona	34	2	7	0
2020/09/19 13:38:32	Alger	16	0	1	0
2020/09/19 13:38:32	Allegan	651	7	78	0
2020/09/19 13:38:32	Alpena	121	14	18	0
2020/09/19 13:38:32	Antrim	58	0	8	0
2020/09/19 13:38:32	Arenac	63	3	6	0
2020/09/19 13:38:32	Baraga	8	0	5	0
2020/09/19 13:38:32	Barry	246	2	26	0
2020/09/19 13:38:32	Bay	863	48	93	0
2020/09/19 13:38:32	Benzie	64	2	5	0
2020/09/19 13:38:32	Berrien	1596	72	188	0
2020/09/19 13:38:32	Branch	513	4	55	0
2020/09/19 13:38:32	Calhoun	1082	43	140	1
2020/09/19 13:38:32	Cass	476	16	38	0
2020/09/19 13:38:32	Charlevoix	82	3	12	0
2020/09/19 13:38:32	Cheboygan	72	2	16	0
2020/09/19 13:38:32	Chippewa	50	0	25	0
2020/09/19 13:38:32	Clare	98	4	10	0
2020/09/19 13:38:32	Clinton	540	13	80	0
2020/09/19 13:38:32	Crawford	109	5	9	0
2020/09/19 13:38:32	Delta	223	5	38	0
2020/09/19 13:38:32	Dickinson	95	2	2	0
2020/09/19 13:38:32	Eaton	541	10	69	0
2020/09/19 13:38:32	Emmet	137	4	15	0
2020/09/19 13:38:32	Genesee	3483	281	784	25
2020/09/19 13:38:32	Gladwin	82	2	9	0
2020/09/19 13:38:32	Gogebic	141	1	12	0
2020/09/19 13:38:32	Grand Traverse	400	7	55	0
2020/09/19 13:38:32	Gratiot	218	15	26	0
2020/09/19 13:38:32	Hillsdale	297	26	28	1
2020/09/19 13:38:32	Houghton	239	1	61	0
2020/09/19 13:38:32	Huron	179	5	35	0
2020/09/19 13:38:32	Ingham	3085	45	73	0
2020/09/19 13:38:32	Ionia	313	7	36	0
2020/09/19 13:38:32	Iosco	156	11	34	1
2020/09/19 13:38:32	Iron	64	1	2	0
2020/09/19 13:38:32	Isabella	583	12	69	0
2020/09/19 13:38:32	Jackson	956	42	24	2
2020/09/19 13:38:32	Kalamazoo	2144	88	436	3
2020/09/19 13:38:32	Kalkaska	65	4	14	0
2020/09/19 13:38:32	Kent	8572	171	770	3
2020/09/19 13:38:32	Keweenaw	6	0	1	0
2020/09/19 13:38:32	Lake	31	0	1	0
2020/09/19 13:38:32	Lapeer	488	35	92	1
2020/09/19 13:38:32	Leelanau	100	1	8	0
2020/09/19 13:38:32	Lenawee	732	16	47	0
2020/09/19 13:38:32	Livingston	1112	29	200	1

2020/09/19 13:38:32	Luce	11	0	1	0
2020/09/19 13:38:32	Mackinac	38	0	16	0
2020/09/19 13:38:32	Macomb	13460	963	511	46
2020/09/19 13:38:32	Manistee	64	2	5	0
2020/09/19 13:38:32	Marquette	266	12	49	0
2020/09/19 13:38:32	Mason	117	0	16	0
2020/09/19 13:38:32	Mecosta	175	3	11	0
2020/09/19 13:38:32	Menominee	266	1	36	0
2020/09/19 13:38:32	Midland	454	11	99	0
2020/09/19 13:38:32	Missaukee	41	1	17	0
2020/09/19 13:38:32	Monroe	1298	27	160	1
2020/09/19 13:38:32	Montcalm	262	5	27	0
2020/09/19 13:38:32	Montmorency	13	0	1	0
2020/09/19 13:38:32	Muskegon	1380	69	64	0
2020/09/19 13:38:32	Newaygo	302	1	15	0
2020/09/19 13:38:32	Oakland	15964	1144	3920	49
2020/09/19 13:38:32	Oceana	486	6	27	0
2020/09/19 13:38:32	Ogemaw	46	5	15	0
2020/09/19 13:38:32	Ontonagon	41	0	1	0
2020/09/19 13:38:32	Osceola	79	0	10	0
2020/09/19 13:38:32	Oscoda	23	1	7	0
2020/09/19 13:38:32	Otsego	146	11	22	0
2020/09/19 13:38:32	Ottawa	3001	60	145	5
2020/09/19 13:38:32	Presque Isle	24	1	2	0
2020/09/19 13:38:32	Roscommon	71	4	17	0
2020/09/19 13:38:32	Saginaw	2669	134	194	4
2020/09/19 13:38:32	Sanilac	138	6	6	1
2020/09/19 13:38:32	Schoolcraft	19	0	2	0
2020/09/19 13:38:32	Shiawassee	460	30	31	1
2020/09/19 13:38:32	St Clair	838	52	139	1
2020/09/19 13:38:32	St Joseph	628	11	98	0
2020/09/19 13:38:32	Tuscola	430	31	58	0
2020/09/19 13:38:32	Van Buren	653	15	85	2
2020/09/19 13:38:32	Washtenaw	2958	115	347	0
2020/09/19 13:38:32	Wayne	17653	1272	1178	50
2020/09/19 13:38:32	Wexford	103	4	16	0
2020/09/19 13:38:32	MDOC	5555	73	8	0
2020/09/19 13:38:32	FCI	190	5	5	0
2020/09/19 13:38:32	Out-of-State	194	1	10	1
2020/09/19 13:38:32	Unknown			4	0
2020/09/19 13:38:32	Detroit City	14170	1516	1081	117

# PUBLIC USE DATASETS

## Cases by Demographics Statewide

### README

Includes the total number of confirmed and probable cases and confirmed and probable deaths to date by demographic characteristics

Confirmed cases only include individuals who have had a positive diagnostic laboratory test for COVID-19.

Probable cases include individuals who have symptoms consistent with COVID-19 and an epidemiologic link to a confirmed case or a positive serology (antibody) test, but do not have a positive diagnostic laboratory test for COVID-19 and individuals with a positive serology (antibody) test for COVID-19 and an epidemiologic link to a confirmed case.

Confirmed deaths include individuals who meet one or more of the following conditions: 1) Have been identified as a confirmed case and classified as deceased as a result of a case investigation in the Michigan Disease Surveillance System (MDSS). MDSS is the database used by state and local health department to monitor reportable diseases like COVID-19; 2) have been identified as a confirmed case in MDSS had have a death certificate with COVID-19 listed as a cause of death; 3) have been identified as a confirmed case in MDSS and die within 30 days of onset of COVID-19 infection and have a death certificate which classifies their manner death as 'natural'.

Probable deaths include individuals who have COVID indicated as a cause of death on their death certificate but have not had a positive diagnostic laboratory test. The number of probable cases can change daily based on information obtained through the health department investigation. Probable cases can be re-classified as a confirmed case or determined to not be a case.

Data is suppressed when the number of cases or deaths in a single category is between one and five to protect the confidentiality of individuals.

# **CASES BY DEMOGRAPHICS STATEWIDE 2020-09-19**

CASE_STATUS	AgeCat	RaceCat	SEX	Cases	Deaths
Confirmed	0-9	American Indian/Alaska Native	Female	7	0
Confirmed	10-19	American Indian/Alaska Native	Female	30	0
Confirmed	20-29	American Indian/Alaska Native	Female	53	0
Confirmed	30-39	American Indian/Alaska Native	Female	45	0
Confirmed	40-49	American Indian/Alaska Native	Female	44	0
Confirmed	50-59	American Indian/Alaska Native	Female	50	0
Confirmed	60-69	American Indian/Alaska Native	Female	22	Suppressed
Confirmed	70-79	American Indian/Alaska Native	Female	18	Suppressed
Confirmed	80+	American Indian/Alaska Native	Female	7	Suppressed
Confirmed	Unknown	American Indian/Alaska Native	Female	0	0
Confirmed	0-9	Asian/Pacific Islander	Female	18	0
Confirmed	10-19	Asian/Pacific Islander	Female	69	0
Confirmed	20-29	Asian/Pacific Islander	Female	209	0
Confirmed	30-39	Asian/Pacific Islander	Female	234	0
Confirmed	40-49	Asian/Pacific Islander	Female	223	0
Confirmed	50-59	Asian/Pacific Islander	Female	188	Suppressed
Confirmed	60-69	Asian/Pacific Islander	Female	111	Suppressed
Confirmed	70-79	Asian/Pacific Islander	Female	52	11
Confirmed	80+	Asian/Pacific Islander	Female	58	23
Confirmed	Unknown	Asian/Pacific Islander	Female	0	0
Confirmed	0-9	Black/African American	Female	184	Suppressed
Confirmed	10-19	Black/African American	Female	498	Suppressed
Confirmed	20-29	Black/African American	Female	2081	Suppressed
Confirmed	30-39	Black/African American	Female	2067	8
Confirmed	40-49	Black/African American	Female	2195	52
Confirmed	50-59	Black/African American	Female	2124	108
Confirmed	60-69	Black/African American	Female	1930	231
Confirmed	70-79	Black/African American	Female	1334	322
Confirmed	80+	Black/African American	Female	1044	431
Confirmed	Unknown	Black/African American	Female	Suppressed	0
Confirmed	0-9	Multiple Races	Female	79	0
Confirmed	10-19	Multiple Races	Female	379	0
Confirmed	20-29	Multiple Races	Female	889	0
Confirmed	30-39	Multiple Races	Female	650	Suppressed
Confirmed	40-49	Multiple Races	Female	751	Suppressed
Confirmed	50-59	Multiple Races	Female	782	Suppressed
Confirmed	60-69	Multiple Races	Female	476	Suppressed
Confirmed	70-79	Multiple Races	Female	227	11
Confirmed	80+	Multiple Races	Female	212	22
Confirmed	Unknown	Multiple Races	Female	Suppressed	0
Confirmed	0-9	Other	Female	146	0
Confirmed	10-19	Other	Female	462	0
Confirmed	20-29	Other	Female	866	0
Confirmed	30-39	Other	Female	617	Suppressed
Confirmed	40-49	Other	Female	605	Suppressed
Confirmed	50-59	Other	Female	418	Suppressed
Confirmed	60-69	Other	Female	274	15

Confirmed	70-79	Other	Female	135	15
Confirmed	80+	Other	Female	114	24
Confirmed	Unknown	Other	Female	0	0
Confirmed	0-9	Unknown	Female	119	0
Confirmed	10-19	Unknown	Female	690	0
Confirmed	20-29	Unknown	Female	1329	0
Confirmed	30-39	Unknown	Female	1065	0
Confirmed	40-49	Unknown	Female	1181	Suppressed
Confirmed	50-59	Unknown	Female	1193	6
Confirmed	60-69	Unknown	Female	882	13
Confirmed	70-79	Unknown	Female	494	19
Confirmed	80+	Unknown	Female	556	32
Confirmed	Unknown	Unknown	Female	26	0
Confirmed	0-9	White	Female	492	0
Confirmed	10-19	White	Female	3117	Suppressed
Confirmed	20-29	White	Female	6104	7
Confirmed	30-39	White	Female	3578	10
Confirmed	40-49	White	Female	3684	23
Confirmed	50-59	White	Female	4066	67
Confirmed	60-69	White	Female	3172	180
Confirmed	70-79	White	Female	2304	393
Confirmed	80+	White	Female	3227	1113
Confirmed	Unknown	White	Female	22	0
Confirmed	0-9	American Indian/Alaska Native	Male	9	0
Confirmed	10-19	American Indian/Alaska Native	Male	13	0
Confirmed	20-29	American Indian/Alaska Native	Male	41	0
Confirmed	30-39	American Indian/Alaska Native	Male	42	0
Confirmed	40-49	American Indian/Alaska Native	Male	47	0
Confirmed	50-59	American Indian/Alaska Native	Male	43	Suppressed
Confirmed	60-69	American Indian/Alaska Native	Male	32	6
Confirmed	70-79	American Indian/Alaska Native	Male	18	6
Confirmed	80+	American Indian/Alaska Native	Male	Suppressed	Suppressed
Confirmed	Unknown	American Indian/Alaska Native	Male	0	0
Confirmed	0-9	Asian/Pacific Islander	Male	39	0
Confirmed	10-19	Asian/Pacific Islander	Male	69	0
Confirmed	20-29	Asian/Pacific Islander	Male	222	0
Confirmed	30-39	Asian/Pacific Islander	Male	207	Suppressed
Confirmed	40-49	Asian/Pacific Islander	Male	181	Suppressed
Confirmed	50-59	Asian/Pacific Islander	Male	152	Suppressed
Confirmed	60-69	Asian/Pacific Islander	Male	113	14
Confirmed	70-79	Asian/Pacific Islander	Male	52	15
Confirmed	80+	Asian/Pacific Islander	Male	35	16
Confirmed	Unknown	Asian/Pacific Islander	Male	0	0
Confirmed	0-9	Black/African American	Male	178	0
Confirmed	10-19	Black/African American	Male	500	0
Confirmed	20-29	Black/African American	Male	1621	10
Confirmed	30-39	Black/African American	Male	1718	30
Confirmed	40-49	Black/African American	Male	1921	72
Confirmed	50-59	Black/African American	Male	2239	195
Confirmed	60-69	Black/African American	Male	2084	344



Confirmed	70-79	Black/African American	Male	1304	416
Confirmed	80+	Black/African American	Male	607	307
Confirmed	Unknown	Black/African American	Male	Suppressed	0
Confirmed	0-9	Multiple Races	Male	101	Suppressed
Confirmed	10-19	Multiple Races	Male	344	0
Confirmed	20-29	Multiple Races	Male	667	0
Confirmed	30-39	Multiple Races	Male	514	0
Confirmed	40-49	Multiple Races	Male	559	Suppressed
Confirmed	50-59	Multiple Races	Male	571	Suppressed
Confirmed	60-69	Multiple Races	Male	412	20
Confirmed	70-79	Multiple Races	Male	202	15
Confirmed	80+	Multiple Races	Male	89	17
Confirmed	Unknown	Multiple Races	Male	Suppressed	0
Confirmed	0-9	Other	Male	173	0
Confirmed	10-19	Other	Male	496	0
Confirmed	20-29	Other	Male	956	Suppressed
Confirmed	30-39	Other	Male	748	Suppressed
Confirmed	40-49	Other	Male	649	7
Confirmed	50-59	Other	Male	473	8
Confirmed	60-69	Other	Male	295	25
Confirmed	70-79	Other	Male	147	20
Confirmed	80+	Other	Male	63	13
Confirmed	Unknown	Other	Male	Suppressed	0
Confirmed	0-9	Unknown	Male	150	0
Confirmed	10-19	Unknown	Male	724	0
Confirmed	20-29	Unknown	Male	1422	0
Confirmed	30-39	Unknown	Male	1216	Suppressed
Confirmed	40-49	Unknown	Male	1243	10
Confirmed	50-59	Unknown	Male	1260	8
Confirmed	60-69	Unknown	Male	924	15
Confirmed	70-79	Unknown	Male	433	23
Confirmed	80+	Unknown	Male	262	29
Confirmed	Unknown	Unknown	Male	23	0
Confirmed	0-9	White	Male	582	0
Confirmed	10-19	White	Male	2596	0
Confirmed	20-29	White	Male	5077	8
Confirmed	30-39	White	Male	3452	14
Confirmed	40-49	White	Male	3378	38
Confirmed	50-59	White	Male	4059	127
Confirmed	60-69	White	Male	3431	305
Confirmed	70-79	White	Male	2308	516
Confirmed	80+	White	Male	1807	809
Confirmed	Unknown	White	Male	17	0
Confirmed	0-9	American Indian/Alaska Native	Unknown	0	0
Confirmed	10-19	American Indian/Alaska Native	Unknown	0	0
Confirmed	20-29	American Indian/Alaska Native	Unknown	0	0
Confirmed	30-39	American Indian/Alaska Native	Unknown	0	0
Confirmed	40-49	American Indian/Alaska Native	Unknown	0	0
Confirmed	50-59	American Indian/Alaska Native	Unknown	0	0
Confirmed	60-69	American Indian/Alaska Native	Unknown	0	0

Confirmed	70-79	American Indian/Alaska Native	Unknown	0	0
Confirmed	80+	American Indian/Alaska Native	Unknown	0	0
Confirmed	Unknown	American Indian/Alaska Native	Unknown	0	0
Confirmed	0-9	Asian/Pacific Islander	Unknown	0	0
Confirmed	10-19	Asian/Pacific Islander	Unknown	0	0
Confirmed	20-29	Asian/Pacific Islander	Unknown	0	0
Confirmed	30-39	Asian/Pacific Islander	Unknown	Suppressed	0
Confirmed	40-49	Asian/Pacific Islander	Unknown	0	0
Confirmed	50-59	Asian/Pacific Islander	Unknown	0	0
Confirmed	60-69	Asian/Pacific Islander	Unknown	0	0
Confirmed	70-79	Asian/Pacific Islander	Unknown	0	0
Confirmed	80+	Asian/Pacific Islander	Unknown	0	0
Confirmed	Unknown	Asian/Pacific Islander	Unknown	0	0
Confirmed	0-9	Black/African American	Unknown	Suppressed	0
Confirmed	10-19	Black/African American	Unknown	Suppressed	0
Confirmed	20-29	Black/African American	Unknown	Suppressed	0
Confirmed	30-39	Black/African American	Unknown	Suppressed	0
Confirmed	40-49	Black/African American	Unknown	Suppressed	0
Confirmed	50-59	Black/African American	Unknown	Suppressed	0
Confirmed	60-69	Black/African American	Unknown	Suppressed	0
Confirmed	70-79	Black/African American	Unknown	Suppressed	0
Confirmed	80+	Black/African American	Unknown	Suppressed	0
Confirmed	Unknown	Black/African American	Unknown	0	0
Confirmed	0-9	Multiple Races	Unknown	0	0
Confirmed	10-19	Multiple Races	Unknown	Suppressed	0
Confirmed	20-29	Multiple Races	Unknown	7	0
Confirmed	30-39	Multiple Races	Unknown	Suppressed	0
Confirmed	40-49	Multiple Races	Unknown	0	0
Confirmed	50-59	Multiple Races	Unknown	Suppressed	0
Confirmed	60-69	Multiple Races	Unknown	Suppressed	0
Confirmed	70-79	Multiple Races	Unknown	Suppressed	0
Confirmed	80+	Multiple Races	Unknown	0	0
Confirmed	Unknown	Multiple Races	Unknown	Suppressed	0
Confirmed	0-9	Other	Unknown	Suppressed	0
Confirmed	10-19	Other	Unknown	Suppressed	0
Confirmed	20-29	Other	Unknown	Suppressed	0
Confirmed	30-39	Other	Unknown	Suppressed	0
Confirmed	40-49	Other	Unknown	Suppressed	0
Confirmed	50-59	Other	Unknown	Suppressed	0
Confirmed	60-69	Other	Unknown	Suppressed	0
Confirmed	70-79	Other	Unknown	0	0
Confirmed	80+	Other	Unknown	0	0
Confirmed	Unknown	Other	Unknown	Suppressed	0
Confirmed	0-9	Unknown	Unknown	7	0
Confirmed	10-19	Unknown	Unknown	12	0
Confirmed	20-29	Unknown	Unknown	36	0
Confirmed	30-39	Unknown	Unknown	22	0
Confirmed	40-49	Unknown	Unknown	33	0
Confirmed	50-59	Unknown	Unknown	24	0
Confirmed	60-69	Unknown	Unknown	8	0

Confirmed	70-79	Unknown	Unknown	Suppressed	0
Confirmed	80+	Unknown	Unknown	Suppressed	0
Confirmed	Unknown	Unknown	Unknown	6	0
Confirmed	0-9	White	Unknown	0	0
Confirmed	10-19	White	Unknown	15	0
Confirmed	20-29	White	Unknown	11	0
Confirmed	30-39	White	Unknown	6	0
Confirmed	40-49	White	Unknown	6	0
Confirmed	50-59	White	Unknown	Suppressed	0
Confirmed	60-69	White	Unknown	8	0
Confirmed	70-79	White	Unknown	Suppressed	0
Confirmed	80+	White	Unknown	Suppressed	0
Confirmed	Unknown	White	Unknown	0	0
Probable	0-9	American Indian/Alaska Native	Female	Suppressed	0
Probable	10-19	American Indian/Alaska Native	Female	0	0
Probable	20-29	American Indian/Alaska Native	Female	6	0
Probable	30-39	American Indian/Alaska Native	Female	Suppressed	0
Probable	40-49	American Indian/Alaska Native	Female	Suppressed	0
Probable	50-59	American Indian/Alaska Native	Female	Suppressed	0
Probable	60-69	American Indian/Alaska Native	Female	Suppressed	0
Probable	70-79	American Indian/Alaska Native	Female	Suppressed	0
Probable	80+	American Indian/Alaska Native	Female	0	0
Probable	Unknown	American Indian/Alaska Native	Female	0	0
Probable	0-9	Asian/Pacific Islander	Female	9	0
Probable	10-19	Asian/Pacific Islander	Female	11	0
Probable	20-29	Asian/Pacific Islander	Female	23	0
Probable	30-39	Asian/Pacific Islander	Female	17	0
Probable	40-49	Asian/Pacific Islander	Female	10	0
Probable	50-59	Asian/Pacific Islander	Female	13	0
Probable	60-69	Asian/Pacific Islander	Female	Suppressed	0
Probable	70-79	Asian/Pacific Islander	Female	Suppressed	0
Probable	80+	Asian/Pacific Islander	Female	0	0
Probable	Unknown	Asian/Pacific Islander	Female	Suppressed	0
Probable	0-9	Black/African American	Female	23	0
Probable	10-19	Black/African American	Female	41	0
Probable	20-29	Black/African American	Female	116	0
Probable	30-39	Black/African American	Female	98	0
Probable	40-49	Black/African American	Female	126	Suppressed
Probable	50-59	Black/African American	Female	138	6
Probable	60-69	Black/African American	Female	111	12
Probable	70-79	Black/African American	Female	49	12
Probable	80+	Black/African American	Female	35	24
Probable	Unknown	Black/African American	Female	Suppressed	0
Probable	0-9	Multiple Races	Female	17	0
Probable	10-19	Multiple Races	Female	35	0
Probable	20-29	Multiple Races	Female	51	0
Probable	30-39	Multiple Races	Female	24	0
Probable	40-49	Multiple Races	Female	56	0
Probable	50-59	Multiple Races	Female	58	0
Probable	60-69	Multiple Races	Female	42	0

Probable	70-79	Multiple Races	Female	11	0
Probable	80+	Multiple Races	Female	Suppressed	Suppressed
Probable	Unknown	Multiple Races	Female	10	0
Probable	0-9	Other	Female	20	0
Probable	10-19	Other	Female	41	0
Probable	20-29	Other	Female	52	0
Probable	30-39	Other	Female	43	0
Probable	40-49	Other	Female	38	0
Probable	50-59	Other	Female	25	Suppressed
Probable	60-69	Other	Female	15	Suppressed
Probable	70-79	Other	Female	8	0
Probable	80+	Other	Female	Suppressed	0
Probable	Unknown	Other	Female	Suppressed	0
Probable	0-9	Unknown	Female	42	0
Probable	10-19	Unknown	Female	189	0
Probable	20-29	Unknown	Female	407	0
Probable	30-39	Unknown	Female	304	0
Probable	40-49	Unknown	Female	412	0
Probable	50-59	Unknown	Female	409	0
Probable	60-69	Unknown	Female	339	Suppressed
Probable	70-79	Unknown	Female	134	0
Probable	80+	Unknown	Female	66	Suppressed
Probable	Unknown	Unknown	Female	50	0
Probable	0-9	White	Female	139	0
Probable	10-19	White	Female	320	0
Probable	20-29	White	Female	526	0
Probable	30-39	White	Female	334	0
Probable	40-49	White	Female	410	Suppressed
Probable	50-59	White	Female	443	Suppressed
Probable	60-69	White	Female	273	16
Probable	70-79	White	Female	147	19
Probable	80+	White	Female	104	52
Probable	Unknown	White	Female	43	0
Probable	0-9	American Indian/Alaska Native	Male	0	0
Probable	10-19	American Indian/Alaska Native	Male	Suppressed	0
Probable	20-29	American Indian/Alaska Native	Male	Suppressed	0
Probable	30-39	American Indian/Alaska Native	Male	Suppressed	0
Probable	40-49	American Indian/Alaska Native	Male	Suppressed	0
Probable	50-59	American Indian/Alaska Native	Male	Suppressed	0
Probable	60-69	American Indian/Alaska Native	Male	Suppressed	0
Probable	70-79	American Indian/Alaska Native	Male	0	0
Probable	80+	American Indian/Alaska Native	Male	Suppressed	Suppressed
Probable	Unknown	American Indian/Alaska Native	Male	0	0
Probable	0-9	Asian/Pacific Islander	Male	14	0
Probable	10-19	Asian/Pacific Islander	Male	6	0
Probable	20-29	Asian/Pacific Islander	Male	18	0
Probable	30-39	Asian/Pacific Islander	Male	19	0
Probable	40-49	Asian/Pacific Islander	Male	Suppressed	0
Probable	50-59	Asian/Pacific Islander	Male	8	0
Probable	60-69	Asian/Pacific Islander	Male	Suppressed	0

Probable	70-79	Asian/Pacific Islander	Male	Suppressed	Suppressed
Probable	80+	Asian/Pacific Islander	Male	0	0
Probable	Unknown	Asian/Pacific Islander	Male	0	0
Probable	0-9	Black/African American	Male	34	0
Probable	10-19	Black/African American	Male	42	0
Probable	20-29	Black/African American	Male	61	0
Probable	30-39	Black/African American	Male	56	0
Probable	40-49	Black/African American	Male	55	8
Probable	50-59	Black/African American	Male	86	7
Probable	60-69	Black/African American	Male	85	21
Probable	70-79	Black/African American	Male	45	25
Probable	80+	Black/African American	Male	19	15
Probable	Unknown	Black/African American	Male	Suppressed	0
Probable	0-9	Multiple Races	Male	23	0
Probable	10-19	Multiple Races	Male	27	0
Probable	20-29	Multiple Races	Male	48	0
Probable	30-39	Multiple Races	Male	34	0
Probable	40-49	Multiple Races	Male	46	Suppressed
Probable	50-59	Multiple Races	Male	34	0
Probable	60-69	Multiple Races	Male	23	0
Probable	70-79	Multiple Races	Male	12	0
Probable	80+	Multiple Races	Male	Suppressed	Suppressed
Probable	Unknown	Multiple Races	Male	13	0
Probable	0-9	Other	Male	21	0
Probable	10-19	Other	Male	40	0
Probable	20-29	Other	Male	52	0
Probable	30-39	Other	Male	38	0
Probable	40-49	Other	Male	35	0
Probable	50-59	Other	Male	20	0
Probable	60-69	Other	Male	16	Suppressed
Probable	70-79	Other	Male	7	Suppressed
Probable	80+	Other	Male	Suppressed	0
Probable	Unknown	Other	Male	Suppressed	0
Probable	0-9	Unknown	Male	46	0
Probable	10-19	Unknown	Male	179	0
Probable	20-29	Unknown	Male	320	0
Probable	30-39	Unknown	Male	302	Suppressed
Probable	40-49	Unknown	Male	292	Suppressed
Probable	50-59	Unknown	Male	315	0
Probable	60-69	Unknown	Male	226	Suppressed
Probable	70-79	Unknown	Male	95	Suppressed
Probable	80+	Unknown	Male	38	Suppressed
Probable	Unknown	Unknown	Male	34	0
Probable	0-9	White	Male	163	0
Probable	10-19	White	Male	305	0
Probable	20-29	White	Male	462	Suppressed
Probable	30-39	White	Male	276	Suppressed
Probable	40-49	White	Male	266	Suppressed
Probable	50-59	White	Male	321	6
Probable	60-69	White	Male	233	15

Probable	70-79	White	Male	98	12
Probable	80+	White	Male	69	26
Probable	Unknown	White	Male	26	0
Probable	0-9	American Indian/Alaska Native	Unknown	0	0
Probable	10-19	American Indian/Alaska Native	Unknown	0	0
Probable	20-29	American Indian/Alaska Native	Unknown	Suppressed	0
Probable	30-39	American Indian/Alaska Native	Unknown	0	0
Probable	40-49	American Indian/Alaska Native	Unknown	0	0
Probable	50-59	American Indian/Alaska Native	Unknown	0	0
Probable	60-69	American Indian/Alaska Native	Unknown	0	0
Probable	70-79	American Indian/Alaska Native	Unknown	0	0
Probable	80+	American Indian/Alaska Native	Unknown	0	0
Probable	Unknown	American Indian/Alaska Native	Unknown	0	0
Probable	0-9	Asian/Pacific Islander	Unknown	0	0
Probable	10-19	Asian/Pacific Islander	Unknown	0	0
Probable	20-29	Asian/Pacific Islander	Unknown	Suppressed	0
Probable	30-39	Asian/Pacific Islander	Unknown	0	0
Probable	40-49	Asian/Pacific Islander	Unknown	0	0
Probable	50-59	Asian/Pacific Islander	Unknown	0	0
Probable	60-69	Asian/Pacific Islander	Unknown	0	0
Probable	70-79	Asian/Pacific Islander	Unknown	0	0
Probable	80+	Asian/Pacific Islander	Unknown	0	0
Probable	Unknown	Asian/Pacific Islander	Unknown	0	0
Probable	0-9	Black/African American	Unknown	0	0
Probable	10-19	Black/African American	Unknown	0	0
Probable	20-29	Black/African American	Unknown	0	0
Probable	30-39	Black/African American	Unknown	0	0
Probable	40-49	Black/African American	Unknown	0	0
Probable	50-59	Black/African American	Unknown	0	0
Probable	60-69	Black/African American	Unknown	Suppressed	0
Probable	70-79	Black/African American	Unknown	0	0
Probable	80+	Black/African American	Unknown	0	0
Probable	Unknown	Black/African American	Unknown	Suppressed	0
Probable	0-9	Multiple Races	Unknown	Suppressed	0
Probable	10-19	Multiple Races	Unknown	0	0
Probable	20-29	Multiple Races	Unknown	Suppressed	0
Probable	30-39	Multiple Races	Unknown	Suppressed	0
Probable	40-49	Multiple Races	Unknown	Suppressed	0
Probable	50-59	Multiple Races	Unknown	Suppressed	0
Probable	60-69	Multiple Races	Unknown	Suppressed	0
Probable	70-79	Multiple Races	Unknown	0	0
Probable	80+	Multiple Races	Unknown	0	0
Probable	Unknown	Multiple Races	Unknown	0	0
Probable	0-9	Other	Unknown	Suppressed	0
Probable	10-19	Other	Unknown	Suppressed	0
Probable	20-29	Other	Unknown	Suppressed	0
Probable	30-39	Other	Unknown	0	0
Probable	40-49	Other	Unknown	Suppressed	0
Probable	50-59	Other	Unknown	Suppressed	0
Probable	60-69	Other	Unknown	0	0

Probable	70-79	Other	Unknown	0	0
Probable	80+	Other	Unknown	0	0
Probable	Unknown	Other	Unknown	Suppressed	0
Probable	0-9	Unknown	Unknown	14	0
Probable	10-19	Unknown	Unknown	13	0
Probable	20-29	Unknown	Unknown	23	0
Probable	30-39	Unknown	Unknown	21	0
Probable	40-49	Unknown	Unknown	21	0
Probable	50-59	Unknown	Unknown	11	0
Probable	60-69	Unknown	Unknown	13	0
Probable	70-79	Unknown	Unknown	6	0
Probable	80+	Unknown	Unknown	Suppressed	0
Probable	Unknown	Unknown	Unknown	388	0
Probable	0-9	White	Unknown	Suppressed	0
Probable	10-19	White	Unknown	Suppressed	0
Probable	20-29	White	Unknown	8	0
Probable	30-39	White	Unknown	Suppressed	0
Probable	40-49	White	Unknown	6	0
Probable	50-59	White	Unknown	7	0
Probable	60-69	White	Unknown	Suppressed	0
Probable	70-79	White	Unknown	0	0
Probable	80+	White	Unknown	0	0
Probable	Unknown	White	Unknown	7	0

# PUBLIC USE DATASETS

## COVID-19 Tests by County

### README

Data includes tests by type (diagnostic, serology or total combined) by county.

Diagnostic tests are used to find current infection and look for genes or proteins from the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes COVID-19. These tests, which are performed as nasal swabs, include: Nucleic acid amplification test/real-time polymerase chain reaction (NAAT/RT-PCR) test and rapid virus antigen detection point of care (POC) tests.

Serology tests are used to look for the possibility of previous infection. Serology tests look for antibodies to SARS-CoV-2 in the blood. There are currently two types of serology tests: the enzyme-linked immunosorbent assay (ELISA) test and the rapid antibody detection POC test. Serology tests do not diagnose disease and do not guarantee immunity, but might provide information about previous infection.

Correctional includes state and federal prisons and county and city detection facilities. Testing data represents total tests performed, not individuals tested. A single individual may have more than one test completed.



# COVID-19 TESTS BY COUNTY 2020-09-19

Updated	COUNTY	TestType	Count	RatePerMillion
2020/09/19 13:38:36	Alcona	Diagnostic	2010	193176
2020/09/19 13:38:36	Alcona	Serology	53	5094
2020/09/19 13:38:36	Alcona	Total	2063	198270
2020/09/19 13:38:36	Alger	Diagnostic	1176	129117
2020/09/19 13:38:36	Alger	Serology	66	7246
2020/09/19 13:38:36	Alger	Total	1242	136364
2020/09/19 13:38:36	Allegan	Diagnostic	30309	256680
2020/09/19 13:38:36	Allegan	Serology	947	8020
2020/09/19 13:38:36	Allegan	Total	31256	264700
2020/09/19 13:38:36	Alpena	Serology	159	5598
2020/09/19 13:38:36	Alpena	Diagnostic	2775	97694
2020/09/19 13:38:36	Alpena	Total	2934	103292
2020/09/19 13:38:36	Antrim	Diagnostic	5136	220202
2020/09/19 13:38:36	Antrim	Serology	127	5445
2020/09/19 13:38:36	Antrim	Total	5263	225647
2020/09/19 13:38:36	Arenac	Diagnostic	3779	253914
2020/09/19 13:38:36	Arenac	Serology	152	10213
2020/09/19 13:38:36	Arenac	Total	3931	264127
2020/09/19 13:38:36	Baraga	Diagnostic	2076	252893
2020/09/19 13:38:36	Baraga	Serology	41	4995
2020/09/19 13:38:36	Baraga	Total	2117	257888
2020/09/19 13:38:36	Barry	Serology	710	11535
2020/09/19 13:38:36	Barry	Diagnostic	15988	259756
2020/09/19 13:38:36	Barry	Total	16698	271292
2020/09/19 13:38:36	Bay	Diagnostic	34119	330848
2020/09/19 13:38:36	Bay	Serology	1814	17590
2020/09/19 13:38:36	Bay	Total	35933	348438
2020/09/19 13:38:36	Benzie	Serology	139	7824
2020/09/19 13:38:36	Benzie	Diagnostic	3954	222560
2020/09/19 13:38:36	Benzie	Total	4093	230384
2020/09/19 13:38:36	Berrien	Diagnostic	63919	416679
2020/09/19 13:38:36	Berrien	Serology	2049	13357
2020/09/19 13:38:36	Berrien	Total	65968	430036
2020/09/19 13:38:36	Branch	Diagnostic	8887	204219
2020/09/19 13:38:36	Branch	Serology	151	3470
2020/09/19 13:38:36	Branch	Total	9038	207689
2020/09/19 13:38:36	Calhoun	Serology	753	5613
2020/09/19 13:38:36	Calhoun	Diagnostic	49552	369353
2020/09/19 13:38:36	Calhoun	Total	50305	374966
2020/09/19 13:38:36	Cass	Diagnostic	10244	197810
2020/09/19 13:38:36	Cass	Serology	255	4924
2020/09/19 13:38:36	Cass	Total	10499	202734
2020/09/19 13:38:36	Charlevoix	Diagnostic	6384	244195
2020/09/19 13:38:36	Charlevoix	Serology	383	14650
2020/09/19 13:38:36	Charlevoix	Total	6767	258846
2020/09/19 13:38:36	Cheboygan	Diagnostic	3410	134911
2020/09/19 13:38:36	Cheboygan	Serology	200	7913

2020/09/19 13:38:36	Cheboygan	Total	3610	142823
2020/09/19 13:38:36	Chippewa	Diagnostic	4835	129455
2020/09/19 13:38:36	Chippewa	Serology	92	2463
2020/09/19 13:38:36	Chippewa	Total	4927	131918
2020/09/19 13:38:36	Clare	Diagnostic	4678	151147
2020/09/19 13:38:36	Clare	Serology	259	8368
2020/09/19 13:38:36	Clare	Total	4937	159515
2020/09/19 13:38:36	Clinton	Diagnostic	16971	213217
2020/09/19 13:38:36	Clinton	Serology	2521	31673
2020/09/19 13:38:36	Clinton	Total	19492	244890
2020/09/19 13:38:36	Correctional	Diagnostic	86071	
2020/09/19 13:38:36	Correctional	Serology	11007	
2020/09/19 13:38:36	Correctional	Total	97078	
2020/09/19 13:38:36	Crawford	Diagnostic	2685	191389
2020/09/19 13:38:36	Crawford	Serology	75	5346
2020/09/19 13:38:36	Crawford	Total	2760	196735
2020/09/19 13:38:36	Delta	Diagnostic	10151	283674
2020/09/19 13:38:36	Delta	Serology	234	6539
2020/09/19 13:38:36	Delta	Total	10385	290214
2020/09/19 13:38:36	Detroit City	Serology	14164	21797
2020/09/19 13:38:36	Detroit City	Diagnostic	263138	404950
2020/09/19 13:38:36	Detroit City	Total	277302	426747
2020/09/19 13:38:36	Dickinson	Diagnostic	3797	150442
2020/09/19 13:38:36	Dickinson	Serology	70	2773
2020/09/19 13:38:36	Dickinson	Total	3867	153215
2020/09/19 13:38:36	Eaton	Diagnostic	36027	326722
2020/09/19 13:38:36	Eaton	Serology	3831	34743
2020/09/19 13:38:36	Eaton	Total	39858	361465
2020/09/19 13:38:36	Emmet	Diagnostic	8450	252880
2020/09/19 13:38:36	Emmet	Serology	835	24989
2020/09/19 13:38:36	Emmet	Total	9285	277869
2020/09/19 13:38:36	Genesee	Diagnostic	91924	226518
2020/09/19 13:38:36	Genesee	Serology	10866	26776
2020/09/19 13:38:36	Genesee	Total	102790	253294
2020/09/19 13:38:36	Gladwin	Diagnostic	4960	194900
2020/09/19 13:38:36	Gladwin	Serology	208	8173
2020/09/19 13:38:36	Gladwin	Total	5168	203073
2020/09/19 13:38:36	Gogebic	Diagnostic	6708	480000
2020/09/19 13:38:36	Gogebic	Serology	43	3077
2020/09/19 13:38:36	Gogebic	Total	6751	483077
2020/09/19 13:38:36	Grand Traverse	Diagnostic	22354	240138
2020/09/19 13:38:36	Grand Traverse	Serology	1071	11505
2020/09/19 13:38:36	Grand Traverse	Total	23425	251644
2020/09/19 13:38:36	Gratiot	Diagnostic	16372	402152
2020/09/19 13:38:36	Gratiot	Serology	407	9997
2020/09/19 13:38:36	Gratiot	Total	16779	412149
2020/09/19 13:38:36	Hillsdale	Diagnostic	10915	239338
2020/09/19 13:38:36	Hillsdale	Serology	320	7017
2020/09/19 13:38:36	Hillsdale	Total	11235	246355
2020/09/19 13:38:36	Houghton	Diagnostic	8681	243274

2020/09/19 13:38:36	Houghton	Serology	123	3447
2020/09/19 13:38:36	Houghton	Total	8804	246721
2020/09/19 13:38:36	Huron	Diagnostic	9084	293212
2020/09/19 13:38:36	Huron	Serology	270	8715
2020/09/19 13:38:36	Huron	Total	9354	301927
2020/09/19 13:38:36	Ingham	Diagnostic	102889	351870
2020/09/19 13:38:36	Ingham	Serology	13002	44466
2020/09/19 13:38:36	Ingham	Total	115891	396336
2020/09/19 13:38:36	Ionia	Diagnostic	18837	291157
2020/09/19 13:38:36	Ionia	Serology	1068	16508
2020/09/19 13:38:36	Ionia	Total	19905	307665
2020/09/19 13:38:36	Iosco	Diagnostic	6978	277709
2020/09/19 13:38:36	Iosco	Serology	179	7124
2020/09/19 13:38:36	Iosco	Total	7157	284833
2020/09/19 13:38:36	Iron	Diagnostic	5969	539400
2020/09/19 13:38:36	Iron	Serology	17	1536
2020/09/19 13:38:36	Iron	Total	5986	540936
2020/09/19 13:38:36	Isabella	Serology	522	7471
2020/09/19 13:38:36	Isabella	Diagnostic	12285	175822
2020/09/19 13:38:36	Isabella	Total	12807	183292
2020/09/19 13:38:36	Jackson	Diagnostic	59264	373882
2020/09/19 13:38:36	Jackson	Serology	1546	9753
2020/09/19 13:38:36	Jackson	Total	60810	383635
2020/09/19 13:38:36	Kalamazoo	Serology	2832	10684
2020/09/19 13:38:36	Kalamazoo	Diagnostic	75427	284559
2020/09/19 13:38:36	Kalamazoo	Total	78259	295243
2020/09/19 13:38:36	Kalkaska	Diagnostic	5809	322042
2020/09/19 13:38:36	Kalkaska	Serology	130	7207
2020/09/19 13:38:36	Kalkaska	Total	5939	329249
2020/09/19 13:38:36	Kent	Serology	15615	23769
2020/09/19 13:38:36	Kent	Diagnostic	236642	360210
2020/09/19 13:38:36	Kent	Total	252257	383979
2020/09/19 13:38:36	Keweenaw	Diagnostic	485	229206
2020/09/19 13:38:36	Keweenaw	Serology	15	7089
2020/09/19 13:38:36	Keweenaw	Total	500	236295
2020/09/19 13:38:36	Lake	Diagnostic	3325	280520
2020/09/19 13:38:36	Lake	Serology	110	9280
2020/09/19 13:38:36	Lake	Total	3435	289800
2020/09/19 13:38:36	Lapeer	Serology	1614	18423
2020/09/19 13:38:36	Lapeer	Diagnostic	16704	190670
2020/09/19 13:38:36	Lapeer	Total	18318	209093
2020/09/19 13:38:36	Leelanau	Diagnostic	3781	173751
2020/09/19 13:38:36	Leelanau	Serology	153	7031
2020/09/19 13:38:36	Leelanau	Total	3934	180782
2020/09/19 13:38:36	Lenawee	Diagnostic	23537	239073
2020/09/19 13:38:36	Lenawee	Serology	891	9050
2020/09/19 13:38:36	Lenawee	Total	24428	248123
2020/09/19 13:38:36	Livingston	Diagnostic	52535	273627
2020/09/19 13:38:36	Livingston	Serology	4447	23162
2020/09/19 13:38:36	Livingston	Total	56982	296789

2020/09/19 13:38:36	Luce	Diagnostic	1344	215765
2020/09/19 13:38:36	Luce	Serology	34	5458
2020/09/19 13:38:36	Luce	Total	1378	221223
2020/09/19 13:38:36	Mackinac	Diagnostic	2012	186314
2020/09/19 13:38:36	Mackinac	Serology	44	4074
2020/09/19 13:38:36	Mackinac	Total	2056	190388
2020/09/19 13:38:36	Macomb	Diagnostic	226136	258745
2020/09/19 13:38:36	Macomb	Serology	28390	32484
2020/09/19 13:38:36	Macomb	Total	254526	291229
2020/09/19 13:38:36	Manistee	Diagnostic	4571	186131
2020/09/19 13:38:36	Manistee	Serology	230	9366
2020/09/19 13:38:36	Manistee	Total	4801	195496
2020/09/19 13:38:36	Marquette	Diagnostic	30058	450651
2020/09/19 13:38:36	Marquette	Serology	923	13838
2020/09/19 13:38:36	Marquette	Total	30981	464490
2020/09/19 13:38:36	Mason	Serology	446	15303
2020/09/19 13:38:36	Mason	Diagnostic	10075	345697
2020/09/19 13:38:36	Mason	Total	10521	361001
2020/09/19 13:38:36	Mecosta	Serology	426	9804
2020/09/19 13:38:36	Mecosta	Diagnostic	11071	254781
2020/09/19 13:38:36	Mecosta	Total	11497	264585
2020/09/19 13:38:36	Menominee	Diagnostic	4644	203863
2020/09/19 13:38:36	Menominee	Serology	42	1844
2020/09/19 13:38:36	Menominee	Total	4686	205707
2020/09/19 13:38:36	Midland	Diagnostic	12906	155202
2020/09/19 13:38:36	Midland	Serology	1489	17906
2020/09/19 13:38:36	Midland	Total	14395	173108
2020/09/19 13:38:36	Missaukee	Diagnostic	2812	186003
2020/09/19 13:38:36	Missaukee	Serology	113	7475
2020/09/19 13:38:36	Missaukee	Total	2925	193478
2020/09/19 13:38:36	Monroe	Diagnostic	35315	234651
2020/09/19 13:38:36	Monroe	Serology	2534	16837
2020/09/19 13:38:36	Monroe	Total	37849	251488
2020/09/19 13:38:36	Montcalm	Diagnostic	19832	310418
2020/09/19 13:38:36	Montcalm	Serology	1006	15746
2020/09/19 13:38:36	Montcalm	Total	20838	326165
2020/09/19 13:38:36	Montmorency	Serology	115	12328
2020/09/19 13:38:36	Montmorency	Diagnostic	1354	145154
2020/09/19 13:38:36	Montmorency	Total	1469	157483
2020/09/19 13:38:36	Muskegon	Serology	1325	7634
2020/09/19 13:38:36	Muskegon	Diagnostic	61183	352506
2020/09/19 13:38:36	Muskegon	Total	62508	360140
2020/09/19 13:38:36	Newaygo	Diagnostic	13479	275194
2020/09/19 13:38:36	Newaygo	Serology	642	13107
2020/09/19 13:38:36	Newaygo	Total	14121	288301
2020/09/19 13:38:36	Oakland	Diagnostic	358551	285111
2020/09/19 13:38:36	Oakland	Serology	62310	49547
2020/09/19 13:38:36	Oakland	Total	420861	334658
2020/09/19 13:38:36	Oceana	Diagnostic	11426	431707
2020/09/19 13:38:36	Oceana	Serology	288	10881

2020/09/19 13:38:36	Oceana	Total	11714	442589
2020/09/19 13:38:36	Ogemaw	Diagnostic	4057	193218
2020/09/19 13:38:36	Ogemaw	Serology	158	7525
2020/09/19 13:38:36	Ogemaw	Total	4215	200743
2020/09/19 13:38:36	Ontonagon	Diagnostic	2303	402622
2020/09/19 13:38:36	Ontonagon	Serology	18	3147
2020/09/19 13:38:36	Ontonagon	Total	2321	405769
2020/09/19 13:38:36	Osceola	Serology	276	11765
2020/09/19 13:38:36	Osceola	Diagnostic	7552	321910
2020/09/19 13:38:36	Osceola	Total	7828	333674
2020/09/19 13:38:36	Oscoda	Diagnostic	1266	153622
2020/09/19 13:38:36	Oscoda	Serology	19	2306
2020/09/19 13:38:36	Oscoda	Total	1285	155928
2020/09/19 13:38:36	Otsego	Diagnostic	3915	158708
2020/09/19 13:38:36	Otsego	Serology	277	11229
2020/09/19 13:38:36	Otsego	Total	4192	169937
2020/09/19 13:38:36	Ottawa	Serology	4692	16078
2020/09/19 13:38:36	Ottawa	Diagnostic	96490	330638
2020/09/19 13:38:36	Ottawa	Total	101182	346716
2020/09/19 13:38:36	Presque Isle	Diagnostic	1783	141598
2020/09/19 13:38:36	Presque Isle	Serology	124	9848
2020/09/19 13:38:36	Presque Isle	Total	1907	151445
2020/09/19 13:38:36	Roscommon	Diagnostic	5342	222407
2020/09/19 13:38:36	Roscommon	Serology	284	11824
2020/09/19 13:38:36	Roscommon	Total	5626	234231
2020/09/19 13:38:36	Saginaw	Diagnostic	74368	390303
2020/09/19 13:38:36	Saginaw	Serology	2010	10549
2020/09/19 13:38:36	Saginaw	Total	76378	400852
2020/09/19 13:38:36	Sanilac	Diagnostic	11613	282074
2020/09/19 13:38:36	Sanilac	Serology	478	11610
2020/09/19 13:38:36	Sanilac	Total	12091	293685
2020/09/19 13:38:36	Schoolcraft	Diagnostic	1588	196195
2020/09/19 13:38:36	Schoolcraft	Serology	39	4818
2020/09/19 13:38:36	Schoolcraft	Total	1627	201013
2020/09/19 13:38:36	Shiawassee	Diagnostic	18261	268063
2020/09/19 13:38:36	Shiawassee	Serology	1478	21696
2020/09/19 13:38:36	Shiawassee	Total	19739	289760
2020/09/19 13:38:36	St Clair	Diagnostic	32083	201618
2020/09/19 13:38:36	St Clair	Serology	4059	25508
2020/09/19 13:38:36	St Clair	Total	36142	227125
2020/09/19 13:38:36	St Joseph	Diagnostic	16961	278213
2020/09/19 13:38:36	St Joseph	Serology	600	9842
2020/09/19 13:38:36	St Joseph	Total	17561	288055
2020/09/19 13:38:36	Tuscola	Serology	625	11963
2020/09/19 13:38:36	Tuscola	Diagnostic	19041	364456
2020/09/19 13:38:36	Tuscola	Total	19666	376419
2020/09/19 13:38:36	Unknown	Diagnostic	225966	
2020/09/19 13:38:36	Unknown	Serology	19869	
2020/09/19 13:38:36	Unknown	Total	245835	
2020/09/19 13:38:36	Van Buren	Serology	570	7532

2020/09/19 13:38:36	Van Buren	Diagnostic	26403	348891
2020/09/19 13:38:36	Van Buren	Total	26973	356423
2020/09/19 13:38:36	Washtenaw	Diagnostic	131752	358410
2020/09/19 13:38:36	Washtenaw	Serology	10166	27655
2020/09/19 13:38:36	Washtenaw	Total	141918	386065
2020/09/19 13:38:36	Wayne	Diagnostic	382359	346399
2020/09/19 13:38:36	Wayne	Serology	41010	37153
2020/09/19 13:38:36	Wayne	Total	423369	383552
2020/09/19 13:38:36	Wexford	Diagnostic	7828	232761
2020/09/19 13:38:36	Wexford	Serology	237	7047
2020/09/19 13:38:36	Wexford	Total	8065	239809

# PUBLIC USE DATASETS

## Diagnostic Tests by Result and County

### README

Data include diagnostic tests for COVID-19 by date and county.

Diagnostic tests are used to find current infection and look for genes or proteins from the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), the virus that causes COVID-19. These tests, which are performed as nasal swabs, include: Nucleic acid amplification test/real-time polymerase chain reaction (NAAT/RT-PCR) test and rapid virus antigen detection point of care (POC) tests.

Correctional includes state and federal prisons and county and city detection facilities. Testing data represents total tests performed, not individuals tested. A single individual may have more than one test completed.

The total number of positive tests may exceed the number of confirmed cases due to 1) a single individual may have more than one test performed; 2) MDHHS may receive data on positive tests in advance of a local health department classifying an individual as a confirmed or probable case, and 3) although efforts have been made to deduplicate testing data, some duplication may occur.

# DIAGNOSTIC TESTS BY RESULT AND COUNTY 2020-09-19

MessageDate	COUNTY	Negative	Positive	Total
9/18/2020	Alcona	22	0	22
9/18/2020	Alger	11	0	11
9/18/2020	Allegan	235	2	237
9/18/2020	Alpena	61	1	62
9/18/2020	Antrim	47	0	47
9/18/2020	Arenac	37	0	37
9/18/2020	Baraga	47	0	47
9/18/2020	Barry	98	4	102
9/18/2020	Bay	487	12	499
9/18/2020	Benzie	66	11	77
9/18/2020	Berrien	708	12	720
9/18/2020	Branch	47	2	49
9/18/2020	Calhoun	324	14	338
9/18/2020	Cass	94	11	105
9/18/2020	Charlevoix	49	0	49
9/18/2020	Cheboygan	31	0	31
9/18/2020	Chippewa	6	1	7
9/18/2020	Clare	41	0	41
9/18/2020	Clinton	205	6	211
9/18/2020	Correctional	1732	25	1757
9/18/2020	Crawford	24	0	24
9/18/2020	Delta	164	5	169
9/18/2020	Detroit City	2019	46	2065
9/18/2020	Dickinson	58	0	58
9/18/2020	Eaton	277	12	289
9/18/2020	Emmet	230	1	231
9/18/2020	Genesee	812	37	849
9/18/2020	Gladwin	112	0	112
9/18/2020	Gogebic	157	0	157
9/18/2020	Grand Traverse	183	8	191
9/18/2020	Gratiot	635	3	638
9/18/2020	Hillsdale	81	1	82
9/18/2020	Houghton	64	0	64
9/18/2020	Huron	90	3	93
9/18/2020	Ingham	999	68	1067
9/18/2020	Ionia	240	3	243
9/18/2020	Iosco	94	18	112
9/18/2020	Iron	235	10	245
9/18/2020	Isabella	207	7	214
9/18/2020	Jackson	575	16	591
9/18/2020	Kalamazoo	431	23	454
9/18/2020	Kalkaska	128	0	128
9/18/2020	Kent	1847	57	1904
9/18/2020	Keweenaw	4	0	4
9/18/2020	Lake	19	0	19
9/18/2020	Lapeer	212	2	214
9/18/2020	Leelanau	88	4	92



9/18/2020	Lenawee	148	14	162
9/18/2020	Livingston	572	13	585
9/18/2020	Luce	69	0	69
9/18/2020	Mackinac	10	0	10
9/18/2020	Macomb	1882	118	2000
9/18/2020	Manistee	128	0	128
9/18/2020	Marquette	310	17	327
9/18/2020	Mason	58	0	58
9/18/2020	Mecosta	168	2	170
9/18/2020	Menominee	127	2	129
9/18/2020	Midland	108	3	111
9/18/2020	Missaukee	21	0	21
9/18/2020	Monroe	341	5	346
9/18/2020	Montcalm	201	10	211
9/18/2020	Montmorency	14	0	14
9/18/2020	Muskegon	416	11	427
9/18/2020	Newaygo	124	1	125
9/18/2020	Oakland	3323	145	3468
9/18/2020	Oceana	56	0	56
9/18/2020	Ogemaw	56	0	56
9/18/2020	Ontonagon	39	0	39
9/18/2020	Osceola	64	1	65
9/18/2020	Oscoda	9	0	9
9/18/2020	Otsego	69	1	70
9/18/2020	Ottawa	1030	34	1064
9/18/2020	Presque Isle	18	2	20
9/18/2020	Roscommon	87	0	87
9/18/2020	Saginaw	988	18	1006
9/18/2020	Sanilac	256	1	257
9/18/2020	Schoolcraft	10	0	10
9/18/2020	Shiawassee	189	9	198
9/18/2020	St Clair	401	10	411
9/18/2020	St Joseph	76	3	79
9/18/2020	Tuscola	308	7	315
9/18/2020	Unknown	1826	17	1843
9/18/2020	Van Buren	241	11	252
9/18/2020	Washtenaw	1525	17	1542
9/18/2020	Wayne	3190	148	3338
9/18/2020	Wexford	71	2	73